

## Certification Summary Information Report

<b>Manufacturer</b>	Tesla, Inc.	<b>Manufacturer Code</b>	TSL
<b>Test Group</b>	HTSLV00.0L2S	<b>Evaporative/Refueling Family</b>	--
<b>Certificate Number</b>	HTSLV00.0L2S-001-R01	<b>CARB Executive Order #</b>	--
<b>Certificate Issue Date</b>	12/20/2016	<b>Certificate Revision Date</b>	03/03/2017
<b>Certificate Effective Date</b>	12/20/2016	<b>Conditional Certificate</b>	Yes
<b>CSI Revision #</b>	--	<b>CSI Submission/Revision Date</b>	03/01/2017 04:54:08 PM
<b>Model Year</b>	2017		

  

**Test Group Information**

<b>CSI Type</b>	Running Change	<b>Running Change Reference Number</b>	01
<b>GHG Exempt Status</b>	Not Exempt		

**Drive Sources and Fuel(s)**

**Drive Source #1:** Electric Motor

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Electricity	--	--

  

<b>Hybrid Indicator</b>	No		
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	Yes
<b>Multiple Fuel Combustion</b>	--	<b>Off-board Charge Capable Indicator</b>	Yes
<b>Fuel Cell Indicator</b>	No	<b>EPA Vehicle Class</b>	LDV
<b>Federal Clean Fuel Vehicle</b>	Yes	<b>Federal Clean Fuel Vehicle Standard</b>	ZEV
<b>Federal Clean Fuel Vehicle ILEV</b>	Yes	<b>California Partial Zero Emissions Vehicle Indicator</b>	--
<b>Durability Group Name</b>	GTSLEEVNNL2S	<b>Durability Group Equivalency Factor</b>	1
<b>Reduced Fee Test Group</b>	No	<b>Certification Region Code(s)</b>	FA
<b>Complies with HD GHG 2b/3 regulations?</b>	No		
<b>Introduction into Commerce Date</b>	12/15/2016	<b>CAP2000 Conditional Certificate?</b>	Yes
<b>Independent Commercial Importer?</b>	No	<b>Alternative Fuel Converter Certificate?</b>	No
<b>SFTP Federal Composite Compliance Identifier</b>	Not Applicable	<b>SFTP Tier 2 Composite CO Option</b>	--
<b>SFTP LEV-III Composite Compliance Indicator</b>	No		
<b>OBD Compliance Type</b>	CARB	<b>OBD Demonstration Vehicle Test Group</b>	HTSLV00.0L2S
<b>Test Group OBD Compliance Level</b>	Full - no deficiencies	<b>Number of Test Group OBD Deficiencies</b>	0
<b>OBD Deficiencies Comments</b>	Battery Electric Vehicle - No OBD requirements		
<b>Mfr Test Group Comments</b>	MY2017 certification for Model S AWD carline. Running change 01 to add Model S 100D.		
<b>Mfr Exhaust / Evap Standards Comments</b>	--		

## Certification Summary Information Report

<b>Test Group</b>	HTSLV00.0L2S	<b>Evaporative/Refueling Family</b>	--
-------------------	--------------	-------------------------------------	----

  

**Models Covered by this Certificate**

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Tesla, Inc.	1 - Tesla Motors	64 - Model S P90D	Federal	All Wheel Drive	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	62 - Model S 75D	Federal	All Wheel Drive	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	63 - Model S 90D	Federal	All Wheel Drive	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	61 - Model S 60D	Federal	All Wheel Drive	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	66 - Model S 100D	Federal	All Wheel Drive	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	65 - Model S P100D	Federal	All Wheel Drive	Automatic	1	No

  

**Engine Description**

<b>Hybrid Type</b>	--	<b>Hybrid Description</b>	--
<b>Engine Type</b>	--	<b>Mfr Engine Description</b>	--
<b>Engine Block Arrangement</b>	--	<b>Mfr Engine Block Arrangement Description</b>	--
<b>Camless Valvetrain Indicator</b>	--	<b>Oil Viscosity/Classification</b>	
<b>Number of Cylinders/Rotors</b>	--	<b>Mechanically Variable Compression Ratio Indicator</b>	--

  

**After Treatment Device(s) (ATD)**

<b>Mfr After Treatment Device (ATD) Comments</b>	--
<b>Direct Ozone Reduction (DOR) Device</b>	--
<b>Mfr Emission Control Device Comments</b>	--

  

**Official Test Numbers**

Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Electricity		--	--	--	--	--	--	--	--	--	--

  

**Official Charge Depleting Test Numbers**

Test Group Fuel	UDDS	Highway
Electricity	GTSL10040237	GTSL10040259
Electricity	GTSL10040260	GTSL10040261
Electricity	GTSL10041063	GTSL10041064
Electricity	GTSL10044572	GTSL10044573
Electricity	GTSL10044632	GTSL10044633
Electricity	HTSL10046798	HTSL10046799

## Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
<b>Hybrid Electric Vehicle And Fuel Cell Information</b>			
Rechargable Energy Storage System	Battery(s)	Rechargable Energy Storage System, if Other	--
Battery Type	Lithium Ion	Number of Battery Packs	1
Total Voltage of Battery Packs	400	Battery Energy Capacity	245
Battery Specific Energy	170	Battery Charger Type	On-Board
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	2		
Motor/Generator Type 1	AC Induction	Rated Motor/Generator Power	193
Motor/Generator Type 2	AC Induction	Rated Motor/Generator Power	193
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	Four battery variants (60D,75D 90D, 100D) is available for 2017 MY Dual Motor Model S vehicles.		

## Certification Summary Information Report

<b>Test Group</b>	HTSLV00.0L2S	<b>Evaporative/Refueling Family</b>	--					
<b>Emission Data Vehicle Information</b>								
<b>Vehicle ID / Configuration</b>	DP316-L2S / 0	<b>Manufacturer Vehicle Configuration Number</b>	0					
<b>Original Test Group Name</b>	GTSLV00.0L2S	<b>Original Evaporative/Refueling Family</b>	--					
<b>Original Test Vehicle Model Year</b>	2016							
<b>Vehicle Model</b>								
<b>Represented Test Vehicle Make</b>	Tesla Model S	<b>Represented Test Vehicle Model</b>	P90D					
<b>Leak Family Details</b>								
<b>Leak Family Identifier</b>	--	<b>Leak Family Name</b>	--					
<b>Drive Sources and Fuel System Details</b>								
	<table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	
Drive Source and Fuel#	Drive Source	Fuel						
1	Electric Motor	Electricity						
<b>Hybrid Indicator</b>	No	<b>Multiple Fuel Combustion</b>	--					
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	Yes					
<b>Fuel Cell Indicator</b>	No	<b>Rechargeable Energy Storage System, if 'Other'</b>	--					
<b>Rechargeable Energy Storage System</b>	Battery(s)							
<b>Off-board charge Capable Indicator</b>	Yes	<b>Odometer Correction Factor</b>	1					
<b>Odometer Correction -- Initial</b>	1							
<b>Odometer Correction Sign</b>	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor							
<b>Odometer Correction Units</b>	Miles							
<b>Engine Code</b>	L2S	<b>Rated Horsepower</b>	376					
<b>Displacement (liters)</b>	0.001	<b>Air Aspiration Method, if 'Other'</b>						
<b>Air Aspiration Method</b>	Naturally Aspirated	<b>Air Aspiration Device Configuration</b>	--					
<b>Number of Air Aspiration Devices</b>	--	<b>Drive Mode While Testing</b>	4-Wheel Drive					
<b>Charge Air Cooler Type</b>	--	<b>Aged Emission Components</b>	4,000 (mi)					
<b>Shift Indicator Light Usage</b>	Not equipped	<b>Equivalent Test Weight (pounds)</b>	5250					
<b>Curb Weight (lbs)</b>	4917	<b>N/V Ratio</b>	9.7					
<b>GVWR (lbs)</b>	5874							
<b>Axle Ratio</b>	9.34	<b># of Transmission Gears</b>	1					
<b>Transmission Type</b>	Direct Drive	<b>Creep Gear</b>	No					
<b>Transmission Lockup</b>	No							
<b>Dynamometer Coefficients:</b>								
	<b>Target Coefficients</b>		<b>Set Coefficients</b>					
<b>Coefficient Category</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>					
<b>City/Highway/Evap</b>	41.51	0.2226	0.01403					
			<b>A (lbf)</b>					
			<b>B (lbf/mph)</b>					
			<b>C (lbf/mph**2)</b>					
			<b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>					
			11.7					
<b>Emission Control Device Comments</b>								
No emissions control Device - Pure Electric Vehicle								

## Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	This is a Dual Motor Performance configuration with 90kWh Battery - MY2016 Running Change to include new tires, transmission fluid and new front fascia. Individual HP is 193kW Front / 375 KW Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

## Certification Summary Information Report

<b>Test Group</b>	HTSLV00.0L2S	<b>Evaporative/Refueling Family</b>	--																																													
<b>Test #</b>	<b>GTSL10040260</b>	<b>Test Procedure</b>	<b>81 - Charge Depleting UDDS</b>																																													
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity																																													
<b>Test Date</b>	03/15/2016	<b>Fuel</b>	N/A																																													
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--																																													
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned																																													
<b>Verify Test Lab ID</b>	Fremont Dyno																																															
<b>E10 Evaporative Test Measurement Method</b>	--																																															
<b>Test Start Odometer Reading</b>	655	<b>Odometer Units</b>	M																																													
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--																																													
<b>State of Charge Delta</b>	--																																															
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes																																													
<b>PHEV/EV TEST INFO</b>																																																
<b>Recharge Event Voltage</b>	208	<b>Recharge Event Energy (kiloWatt-hours)</b>	96.65																																													
<b>Charge Depleting Range (Calculated miles)</b>	356.2	<b>Charge Depleting Range (Actual miles)</b>	356.2																																													
<b>Equivalent All Electric Range (miles)</b>	356.2																																															
<b>Number of Charge Depleting Bags/Phases Conducted</b>	1																																															
<b>Charge Depleting Bag/Phase</b>																																																
	<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actual Distance Driven (miles)</td> <td>356.2</td> </tr> <tr> <td>2</td> <td>Average System Voltage</td> <td>350</td> </tr> <tr> <td>3</td> <td>Carbon Monoxide</td> <td>0</td> </tr> <tr> <td>4</td> <td>Carbon dioxide</td> <td>0</td> </tr> <tr> <td>5</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>6</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Energy Economy Rating</td> <td>0</td> </tr> <tr> <td>8</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>9</td> <td>Integrated Amp-hours</td> <td>0</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>23.47</td> </tr> <tr> <td>11</td> <td>Nitrogen Oxide</td> <td>0</td> </tr> <tr> <td>12</td> <td>Particulate Matter</td> <td>0</td> </tr> <tr> <td>13</td> <td>System End State of Charge Watt-hours</td> <td>0</td> </tr> <tr> <td>14</td> <td>System Start State of Charge Watt-hours</td> <td>0</td> </tr> </tbody> </table>	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Actual Distance Driven (miles)	356.2	2	Average System Voltage	350	3	Carbon Monoxide	0	4	Carbon dioxide	0	5	Carbon-Related Exhaust Emissions	0	6	Drive Trace Absolute Speed Change Rating	0	7	Drive Trace Energy Economy Rating	0	8	Drive Trace Inertia Work Ratio Rating	0	9	Integrated Amp-hours	0	10	Manufacturer Fuel Economy	23.47	11	Nitrogen Oxide	0	12	Particulate Matter	0	13	System End State of Charge Watt-hours	0	14	System Start State of Charge Watt-hours	0		
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																														
1	Actual Distance Driven (miles)	356.2																																														
2	Average System Voltage	350																																														
3	Carbon Monoxide	0																																														
4	Carbon dioxide	0																																														
5	Carbon-Related Exhaust Emissions	0																																														
6	Drive Trace Absolute Speed Change Rating	0																																														
7	Drive Trace Energy Economy Rating	0																																														
8	Drive Trace Inertia Work Ratio Rating	0																																														
9	Integrated Amp-hours	0																																														
10	Manufacturer Fuel Economy	23.47																																														
11	Nitrogen Oxide	0																																														
12	Particulate Matter	0																																														
13	System End State of Charge Watt-hours	0																																														
14	System Start State of Charge Watt-hours	0																																														
<b>Manufacturer Test Comments</b>	Test Result for MY2016 P90D- Refresh - UDDS																																															

## Certification Summary Information Report

<b>Test Group</b>	HTSLV00.0L2S	<b>Evaporative/Refueling Family</b>	--																																													
<b>Test #</b>	<b>GTSL10040261</b>	<b>Test Procedure</b>	<b>84 - Charge Depleting Highway</b>																																													
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity																																													
<b>Test Date</b>	03/15/2016	<b>Fuel</b>	N/A																																													
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--																																													
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned																																													
<b>Verify Test Lab ID</b>	Fremont Dyno																																															
<b>E10 Evaporative Test Measurement Method</b>	--																																															
<b>Test Start Odometer Reading</b>	800	<b>Odometer Units</b>	M																																													
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--																																													
<b>State of Charge Delta</b>	--																																															
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes																																													
<b>PHEV/EV TEST INFO</b>																																																
<b>Recharge Event Voltage</b>	208	<b>Recharge Event Energy (kiloWatt-hours)</b>	96.46																																													
<b>Charge Depleting Range (Calculated miles)</b>	388.51	<b>Charge Depleting Range (Actual miles)</b>	388.51																																													
<b>Equivalent All Electric Range (miles)</b>	388.51																																															
<b>Number of Charge Depleting Bags/Phases Conducted</b>	1																																															
<b>Charge Depleting Bag/Phase</b>																																																
	<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actual Distance Driven (miles)</td> <td>381.84</td> </tr> <tr> <td>2</td> <td>Average System Voltage</td> <td>350</td> </tr> <tr> <td>3</td> <td>Carbon Monoxide</td> <td>0</td> </tr> <tr> <td>4</td> <td>Carbon dioxide</td> <td>0</td> </tr> <tr> <td>5</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>6</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Energy Economy Rating</td> <td>0</td> </tr> <tr> <td>8</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>9</td> <td>Integrated Amp-hours</td> <td>0</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>21.67</td> </tr> <tr> <td>11</td> <td>Nitrogen Oxide</td> <td>0</td> </tr> <tr> <td>12</td> <td>Particulate Matter</td> <td>0</td> </tr> <tr> <td>13</td> <td>System End State of Charge Watt-hours</td> <td>0</td> </tr> <tr> <td>14</td> <td>System Start State of Charge Watt-hours</td> <td>0</td> </tr> </tbody> </table>	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Actual Distance Driven (miles)	381.84	2	Average System Voltage	350	3	Carbon Monoxide	0	4	Carbon dioxide	0	5	Carbon-Related Exhaust Emissions	0	6	Drive Trace Absolute Speed Change Rating	0	7	Drive Trace Energy Economy Rating	0	8	Drive Trace Inertia Work Ratio Rating	0	9	Integrated Amp-hours	0	10	Manufacturer Fuel Economy	21.67	11	Nitrogen Oxide	0	12	Particulate Matter	0	13	System End State of Charge Watt-hours	0	14	System Start State of Charge Watt-hours	0		
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																														
1	Actual Distance Driven (miles)	381.84																																														
2	Average System Voltage	350																																														
3	Carbon Monoxide	0																																														
4	Carbon dioxide	0																																														
5	Carbon-Related Exhaust Emissions	0																																														
6	Drive Trace Absolute Speed Change Rating	0																																														
7	Drive Trace Energy Economy Rating	0																																														
8	Drive Trace Inertia Work Ratio Rating	0																																														
9	Integrated Amp-hours	0																																														
10	Manufacturer Fuel Economy	21.67																																														
11	Nitrogen Oxide	0																																														
12	Particulate Matter	0																																														
13	System End State of Charge Watt-hours	0																																														
14	System Start State of Charge Watt-hours	0																																														
<b>Manufacturer Test Comments</b>	Testing result for MY2016 P90D-Refresh - HWFET																																															

Page 8 of 32 CSI Submission/Revision Date: 03/01/2017 04:54:08 PM



## Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	This is a Dual Motor Performance configuration with 10kWh Battery pack Individual HP is 193kW Front / 375 KW Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

## Certification Summary Information Report

<b>Test Group</b>	HTSLV00.0L2S	<b>Evaporative/Refueling Family</b>	--																																													
<b>Test #</b>	<b>GTSL10044572</b>	<b>Test Procedure</b>	<b>81 - Charge Depleting UDDS</b>																																													
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity																																													
<b>Test Date</b>	07/15/2016	<b>Fuel</b>	N/A																																													
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--																																													
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned																																													
<b>Verify Test Lab ID</b>	Fremont Dyno																																															
<b>E10 Evaporative Test Measurement Method</b>	--																																															
<b>Test Start Odometer Reading</b>	655	<b>Odometer Units</b>	M																																													
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--																																													
<b>State of Charge Delta</b>	--																																															
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes																																													
<b>PHEV/EV TEST INFO</b>																																																
<b>Recharge Event Voltage</b>	208	<b>Recharge Event Energy (kiloWatt-hours)</b>	111.47																																													
<b>Charge Depleting Range (Calculated miles)</b>	414.45	<b>Charge Depleting Range (Actual miles)</b>	414.45																																													
<b>Equivalent All Electric Range (miles)</b>	414.45																																															
<b>Number of Charge Depleting Bags/Phases Conducted</b>	1																																															
<b>Charge Depleting Bag/Phase</b>																																																
	<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actual Distance Driven (miles)</td> <td>414.45</td> </tr> <tr> <td>2</td> <td>Average System Voltage</td> <td>350</td> </tr> <tr> <td>3</td> <td>Carbon Monoxide</td> <td>0</td> </tr> <tr> <td>4</td> <td>Carbon dioxide</td> <td>0</td> </tr> <tr> <td>5</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>6</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Energy Economy Rating</td> <td>0</td> </tr> <tr> <td>8</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>9</td> <td>Integrated Amp-hours</td> <td>0</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>23.69</td> </tr> <tr> <td>11</td> <td>Nitrogen Oxide</td> <td>0</td> </tr> <tr> <td>12</td> <td>Particulate Matter</td> <td>0</td> </tr> <tr> <td>13</td> <td>System End State of Charge Watt-hours</td> <td>0</td> </tr> <tr> <td>14</td> <td>System Start State of Charge Watt-hours</td> <td>0</td> </tr> </tbody> </table>	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Actual Distance Driven (miles)	414.45	2	Average System Voltage	350	3	Carbon Monoxide	0	4	Carbon dioxide	0	5	Carbon-Related Exhaust Emissions	0	6	Drive Trace Absolute Speed Change Rating	0	7	Drive Trace Energy Economy Rating	0	8	Drive Trace Inertia Work Ratio Rating	0	9	Integrated Amp-hours	0	10	Manufacturer Fuel Economy	23.69	11	Nitrogen Oxide	0	12	Particulate Matter	0	13	System End State of Charge Watt-hours	0	14	System Start State of Charge Watt-hours	0		
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																														
1	Actual Distance Driven (miles)	414.45																																														
2	Average System Voltage	350																																														
3	Carbon Monoxide	0																																														
4	Carbon dioxide	0																																														
5	Carbon-Related Exhaust Emissions	0																																														
6	Drive Trace Absolute Speed Change Rating	0																																														
7	Drive Trace Energy Economy Rating	0																																														
8	Drive Trace Inertia Work Ratio Rating	0																																														
9	Integrated Amp-hours	0																																														
10	Manufacturer Fuel Economy	23.69																																														
11	Nitrogen Oxide	0																																														
12	Particulate Matter	0																																														
13	System End State of Charge Watt-hours	0																																														
14	System Start State of Charge Watt-hours	0																																														
<b>Manufacturer Test Comments</b>	Test Result for MY2016 P100D - UDDS																																															

## Certification Summary Information Report

<b>Test Group</b>	HTSLV00.0L2S	<b>Evaporative/Refueling Family</b>	--																																												
<b>Test #</b>	<b>GTSL10044573</b>	<b>Test Procedure</b>	<b>84 - Charge Depleting Highway</b>																																												
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity																																												
<b>Test Date</b>	07/17/2016	<b>Fuel</b>	N/A																																												
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--																																												
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned																																												
<b>Verify Test Lab ID</b>	Fremont Dyno																																														
<b>E10 Evaporative Test Measurement Method</b>	--																																														
<b>Test Start Odometer Reading</b>	1000	<b>Odometer Units</b>	M																																												
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--																																												
<b>State of Charge Delta</b>	--																																														
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes																																												
<b>PHEV/EV TEST INFO</b>																																															
<b>Recharge Event Voltage</b>	208	<b>Recharge Event Energy (kiloWatt-hours)</b>	111.88																																												
<b>Charge Depleting Range (Calculated miles)</b>	469.99	<b>Charge Depleting Range (Actual miles)</b>	469.99																																												
<b>Equivalent All Electric Range (miles)</b>	469.99																																														
<b>Number of Charge Depleting Bags/Phases Conducted</b>	1																																														
<b>Charge Depleting Bag/Phase</b>																																															
	<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actual Distance Driven (miles)</td> <td>469.99</td> </tr> <tr> <td>2</td> <td>Average System Voltage</td> <td>350</td> </tr> <tr> <td>3</td> <td>Carbon Monoxide</td> <td>0</td> </tr> <tr> <td>4</td> <td>Carbon dioxide</td> <td>0</td> </tr> <tr> <td>5</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>6</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Energy Economy Rating</td> <td>0</td> </tr> <tr> <td>8</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>9</td> <td>Integrated Amp-hours</td> <td>0</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>21</td> </tr> <tr> <td>11</td> <td>Nitrogen Oxide</td> <td>0</td> </tr> <tr> <td>12</td> <td>Particulate Matter</td> <td>0</td> </tr> <tr> <td>13</td> <td>System End State of Charge Watt-hours</td> <td>0</td> </tr> <tr> <td>14</td> <td>System Start State of Charge Watt-hours</td> <td>0</td> </tr> </tbody> </table>	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Actual Distance Driven (miles)	469.99	2	Average System Voltage	350	3	Carbon Monoxide	0	4	Carbon dioxide	0	5	Carbon-Related Exhaust Emissions	0	6	Drive Trace Absolute Speed Change Rating	0	7	Drive Trace Energy Economy Rating	0	8	Drive Trace Inertia Work Ratio Rating	0	9	Integrated Amp-hours	0	10	Manufacturer Fuel Economy	21	11	Nitrogen Oxide	0	12	Particulate Matter	0	13	System End State of Charge Watt-hours	0	14	System Start State of Charge Watt-hours	0	
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																													
1	Actual Distance Driven (miles)	469.99																																													
2	Average System Voltage	350																																													
3	Carbon Monoxide	0																																													
4	Carbon dioxide	0																																													
5	Carbon-Related Exhaust Emissions	0																																													
6	Drive Trace Absolute Speed Change Rating	0																																													
7	Drive Trace Energy Economy Rating	0																																													
8	Drive Trace Inertia Work Ratio Rating	0																																													
9	Integrated Amp-hours	0																																													
10	Manufacturer Fuel Economy	21																																													
11	Nitrogen Oxide	0																																													
12	Particulate Matter	0																																													
13	System End State of Charge Watt-hours	0																																													
14	System Start State of Charge Watt-hours	0																																													
<b>Manufacturer Test Comments</b>	Testing result for MY2016 P100D- HWFET																																														

Page 12 of 32 CSI Submission/Revision Date: 03/01/2017 04:54:08 PM

## Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	This is a Dual Motor Base configuration with firmware limited 75kWh Battery pack - MY2016 Running Change Individual HP is 193kW Front / 193KW Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

## Certification Summary Information Report

<b>Test Group</b>	HTSLV00.0L2S	<b>Evaporative/Refueling Family</b>	--																																													
<b>Test #</b>	<b>GTSL10044632</b>	<b>Test Procedure</b>	<b>81 - Charge Depleting UDDS</b>																																													
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity																																													
<b>Test Date</b>	08/10/2016	<b>Fuel</b>	N/A																																													
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--																																													
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned																																													
<b>Verify Test Lab ID</b>	Fremont Dyno																																															
<b>E10 Evaporative Test Measurement Method</b>	--																																															
<b>Test Start Odometer Reading</b>	655	<b>Odometer Units</b>	M																																													
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--																																													
<b>State of Charge Delta</b>	--																																															
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes																																													
<b>PHEV/EV TEST INFO</b>																																																
<b>Recharge Event Voltage</b>	208	<b>Recharge Event Energy (kiloWatt-hours)</b>	73.45																																													
<b>Charge Depleting Range (Calculated miles)</b>	299.57	<b>Charge Depleting Range (Actual miles)</b>	299.57																																													
<b>Equivalent All Electric Range (miles)</b>	299.57																																															
<b>Number of Charge Depleting Bags/Phases Conducted</b>	1																																															
<b>Charge Depleting Bag/Phase</b>																																																
	<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actual Distance Driven (miles)</td> <td>299.57</td> </tr> <tr> <td>2</td> <td>Average System Voltage</td> <td>350</td> </tr> <tr> <td>3</td> <td>Carbon Monoxide</td> <td>0</td> </tr> <tr> <td>4</td> <td>Carbon dioxide</td> <td>0</td> </tr> <tr> <td>5</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>6</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Energy Economy Rating</td> <td>0</td> </tr> <tr> <td>8</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>9</td> <td>Integrated Amp-hours</td> <td>0</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>21.14</td> </tr> <tr> <td>11</td> <td>Nitrogen Oxide</td> <td>0</td> </tr> <tr> <td>12</td> <td>Particulate Matter</td> <td>0</td> </tr> <tr> <td>13</td> <td>System End State of Charge Watt-hours</td> <td>0</td> </tr> <tr> <td>14</td> <td>System Start State of Charge Watt-hours</td> <td>0</td> </tr> </tbody> </table>	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Actual Distance Driven (miles)	299.57	2	Average System Voltage	350	3	Carbon Monoxide	0	4	Carbon dioxide	0	5	Carbon-Related Exhaust Emissions	0	6	Drive Trace Absolute Speed Change Rating	0	7	Drive Trace Energy Economy Rating	0	8	Drive Trace Inertia Work Ratio Rating	0	9	Integrated Amp-hours	0	10	Manufacturer Fuel Economy	21.14	11	Nitrogen Oxide	0	12	Particulate Matter	0	13	System End State of Charge Watt-hours	0	14	System Start State of Charge Watt-hours	0		
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																														
1	Actual Distance Driven (miles)	299.57																																														
2	Average System Voltage	350																																														
3	Carbon Monoxide	0																																														
4	Carbon dioxide	0																																														
5	Carbon-Related Exhaust Emissions	0																																														
6	Drive Trace Absolute Speed Change Rating	0																																														
7	Drive Trace Energy Economy Rating	0																																														
8	Drive Trace Inertia Work Ratio Rating	0																																														
9	Integrated Amp-hours	0																																														
10	Manufacturer Fuel Economy	21.14																																														
11	Nitrogen Oxide	0																																														
12	Particulate Matter	0																																														
13	System End State of Charge Watt-hours	0																																														
14	System Start State of Charge Watt-hours	0																																														
<b>Manufacturer Test Comments</b>	MY2016 60D-UDDS - physical RETEST as per EPA's direction																																															

Page 15 of 32 CSI Submission/Revision Date: 03/01/2017 04:54:08 PM

## Certification Summary Information Report

<b>Test Group</b>	HTSLV00.0L2S	<b>Evaporative/Refueling Family</b>	--																						
<b>Emission Data Vehicle Information</b>																									
<b>Vehicle ID / Configuration</b>	DS216-L2S / 0	<b>Manufacturer Vehicle Configuration Number</b>	0																						
<b>Original Test Group Name</b>	GTSLV00.0L2S	<b>Original Evaporative/Refueling Family</b>	--																						
<b>Original Test Vehicle Model Year</b>	2016																								
<b>Vehicle Model</b>																									
<b>Represented Test Vehicle Make</b>	Tesla Model S	<b>Represented Test Vehicle Model</b>	75D																						
<b>Leak Family Details</b>																									
<b>Leak Family Identifier</b>	--	<b>Leak Family Name</b>	--																						
<b>Drive Sources and Fuel System Details</b>																									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity																		
Drive Source and Fuel#	Drive Source	Fuel																							
1	Electric Motor	Electricity																							
<b>Hybrid Indicator</b>	No	<b>Multiple Fuel Combustion</b>	--																						
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	Yes																						
<b>Fuel Cell Indicator</b>	No	<b>Rechargeable Energy Storage System, if 'Other'</b>	--																						
<b>Rechargeable Energy Storage System</b>	Battery(s)																								
<b>Off-board charge Capable Indicator</b>	Yes	<b>Odometer Correction Factor</b>	1																						
<b>Odometer Correction -- Initial</b>	1																								
<b>Odometer Correction Sign</b>	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor																								
<b>Odometer Correction Units</b>	Miles																								
<b>Engine Code</b>	L2S	<b>Rated Horsepower</b>	376																						
<b>Displacement (liters)</b>	0.001	<b>Air Aspiration Method, if 'Other'</b>																							
<b>Air Aspiration Method</b>	Naturally Aspirated	<b>Air Aspiration Device Configuration</b>	--																						
<b>Number of Air Aspiration Devices</b>	--	<b>Drive Mode While Testing</b>	4-Wheel Drive																						
<b>Charge Air Cooler Type</b>	--	<b>Aged Emission Components</b>	4,000 (mi)																						
<b>Shift Indicator Light Usage</b>	Not equipped	<b>Equivalent Test Weight (pounds)</b>	5000																						
<b>Curb Weight (lbs)</b>	4723	<b>N/V Ratio</b>	9.7																						
<b>GVWR (lbs)</b>	5820																								
<b>Axle Ratio</b>	9.34	<b># of Transmission Gears</b>	1																						
<b>Transmission Type</b>	Direct Drive	<b>Creep Gear</b>	No																						
<b>Transmission Lockup</b>	No																								
<b>Dynamometer Coefficients:</b>																									
	<table border="1"> <thead> <tr> <th colspan="3">Target Coefficients</th> <th colspan="3">Set Coefficients</th> <th rowspan="2">EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</th> </tr> <tr> <th>Coefficient Category</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> </tr> </thead> <tbody> <tr> <td>City/Highway/Evap</td> <td>37.37</td> <td>0.1842</td> <td>0.01508</td> <td>-1.5</td> <td>0.01177</td> <td>0.01559</td> <td>11.2</td> </tr> </tbody> </table>			Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	City/Highway/Evap	37.37	0.1842	0.01508	-1.5	0.01177	0.01559	11.2
Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients																			
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)		C (lbf/mph**2)																		
City/Highway/Evap	37.37	0.1842	0.01508	-1.5	0.01177	0.01559	11.2																		
<b>Emission Control Device Comments</b>	No emissions control Device - Pure Electric Vehicle																								



Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	This is a Dual Motor Base configuration with 75kWh Battery pack - MY2016 Running Change Individual HP is 193kW Front / 193KW Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

## Certification Summary Information Report

<b>Test Group</b>	HTSLV00.0L2S	<b>Evaporative/Refueling Family</b>	--																																													
<b>Test #</b>	<b>GTSL10041063</b>	<b>Test Procedure</b>	<b>81 - Charge Depleting UDDS</b>																																													
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity																																													
<b>Test Date</b>	03/15/2016	<b>Fuel</b>	N/A																																													
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--																																													
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned																																													
<b>Verify Test Lab ID</b>	Fremont Dyno																																															
<b>E10 Evaporative Test Measurement Method</b>	--																																															
<b>Test Start Odometer Reading</b>	655	<b>Odometer Units</b>	M																																													
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--																																													
<b>State of Charge Delta</b>	--																																															
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes																																													
<b>PHEV/EV TEST INFO</b>																																																
<b>Recharge Event Voltage</b>	208	<b>Recharge Event Energy (kiloWatt-hours)</b>	84.48																																													
<b>Charge Depleting Range (Calculated miles)</b>	345.5	<b>Charge Depleting Range (Actual miles)</b>	345.5																																													
<b>Equivalent All Electric Range (miles)</b>	345.5																																															
<b>Number of Charge Depleting Bags/Phases Conducted</b>	1																																															
<b>Charge Depleting Bag/Phase</b>																																																
	<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actual Distance Driven (miles)</td> <td>345.5</td> </tr> <tr> <td>2</td> <td>Average System Voltage</td> <td>350</td> </tr> <tr> <td>3</td> <td>Carbon Monoxide</td> <td>0</td> </tr> <tr> <td>4</td> <td>Carbon dioxide</td> <td>0</td> </tr> <tr> <td>5</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>6</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Energy Economy Rating</td> <td>0</td> </tr> <tr> <td>8</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>9</td> <td>Integrated Amp-hours</td> <td>0</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>21.05</td> </tr> <tr> <td>11</td> <td>Nitrogen Oxide</td> <td>0</td> </tr> <tr> <td>12</td> <td>Particulate Matter</td> <td>0</td> </tr> <tr> <td>13</td> <td>System End State of Charge Watt-hours</td> <td>0</td> </tr> <tr> <td>14</td> <td>System Start State of Charge Watt-hours</td> <td>0</td> </tr> </tbody> </table>	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Actual Distance Driven (miles)	345.5	2	Average System Voltage	350	3	Carbon Monoxide	0	4	Carbon dioxide	0	5	Carbon-Related Exhaust Emissions	0	6	Drive Trace Absolute Speed Change Rating	0	7	Drive Trace Energy Economy Rating	0	8	Drive Trace Inertia Work Ratio Rating	0	9	Integrated Amp-hours	0	10	Manufacturer Fuel Economy	21.05	11	Nitrogen Oxide	0	12	Particulate Matter	0	13	System End State of Charge Watt-hours	0	14	System Start State of Charge Watt-hours	0		
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																														
1	Actual Distance Driven (miles)	345.5																																														
2	Average System Voltage	350																																														
3	Carbon Monoxide	0																																														
4	Carbon dioxide	0																																														
5	Carbon-Related Exhaust Emissions	0																																														
6	Drive Trace Absolute Speed Change Rating	0																																														
7	Drive Trace Energy Economy Rating	0																																														
8	Drive Trace Inertia Work Ratio Rating	0																																														
9	Integrated Amp-hours	0																																														
10	Manufacturer Fuel Economy	21.05																																														
11	Nitrogen Oxide	0																																														
12	Particulate Matter	0																																														
13	System End State of Charge Watt-hours	0																																														
14	System Start State of Charge Watt-hours	0																																														
<b>Manufacturer Test Comments</b>	Test Result for MY2016 75D-UDDS																																															

## Certification Summary Information Report

<b>Test Group</b>	HTSLV00.0L2S	<b>Evaporative/Refueling Family</b>	--																																													
<b>Test #</b>	<b>GTSL10041064</b>	<b>Test Procedure</b>	<b>84 - Charge Depleting Highway</b>																																													
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity																																													
<b>Test Date</b>	03/15/2016	<b>Fuel</b>	N/A																																													
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--																																													
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned																																													
<b>Verify Test Lab ID</b>	Fremont Dyno																																															
<b>E10 Evaporative Test Measurement Method</b>	--																																															
<b>Test Start Odometer Reading</b>	800	<b>Odometer Units</b>	M																																													
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--																																													
<b>State of Charge Delta</b>	--																																															
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes																																													
<b>PHEV/EV TEST INFO</b>																																																
<b>Recharge Event Voltage</b>	208	<b>Recharge Event Energy (kiloWatt-hours)</b>	84.65																																													
<b>Charge Depleting Range (Calculated miles)</b>	358.49	<b>Charge Depleting Range (Actual miles)</b>	358.49																																													
<b>Equivalent All Electric Range (miles)</b>	358.49																																															
<b>Number of Charge Depleting Bags/Phases Conducted</b>	1																																															
<b>Charge Depleting Bag/Phase</b>																																																
	<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actual Distance Driven (miles)</td> <td>358.49</td> </tr> <tr> <td>2</td> <td>Average System Voltage</td> <td>350</td> </tr> <tr> <td>3</td> <td>Carbon Monoxide</td> <td>0</td> </tr> <tr> <td>4</td> <td>Carbon dioxide</td> <td>0</td> </tr> <tr> <td>5</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>6</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Energy Economy Rating</td> <td>0</td> </tr> <tr> <td>8</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>9</td> <td>Integrated Amp-hours</td> <td>0</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>20.5</td> </tr> <tr> <td>11</td> <td>Nitrogen Oxide</td> <td>0</td> </tr> <tr> <td>12</td> <td>Particulate Matter</td> <td>0</td> </tr> <tr> <td>13</td> <td>System End State of Charge Watt-hours</td> <td>0</td> </tr> <tr> <td>14</td> <td>System Start State of Charge Watt-hours</td> <td>0</td> </tr> </tbody> </table>	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Actual Distance Driven (miles)	358.49	2	Average System Voltage	350	3	Carbon Monoxide	0	4	Carbon dioxide	0	5	Carbon-Related Exhaust Emissions	0	6	Drive Trace Absolute Speed Change Rating	0	7	Drive Trace Energy Economy Rating	0	8	Drive Trace Inertia Work Ratio Rating	0	9	Integrated Amp-hours	0	10	Manufacturer Fuel Economy	20.5	11	Nitrogen Oxide	0	12	Particulate Matter	0	13	System End State of Charge Watt-hours	0	14	System Start State of Charge Watt-hours	0		
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																														
1	Actual Distance Driven (miles)	358.49																																														
2	Average System Voltage	350																																														
3	Carbon Monoxide	0																																														
4	Carbon dioxide	0																																														
5	Carbon-Related Exhaust Emissions	0																																														
6	Drive Trace Absolute Speed Change Rating	0																																														
7	Drive Trace Energy Economy Rating	0																																														
8	Drive Trace Inertia Work Ratio Rating	0																																														
9	Integrated Amp-hours	0																																														
10	Manufacturer Fuel Economy	20.5																																														
11	Nitrogen Oxide	0																																														
12	Particulate Matter	0																																														
13	System End State of Charge Watt-hours	0																																														
14	System Start State of Charge Watt-hours	0																																														
<b>Manufacturer Test Comments</b>	Testing result for MY2016 75D - HWFET																																															

## Certification Summary Information Report

<b>Test Group</b>	HTSLV00.0L2S	<b>Evaporative/Refueling Family</b>	--					
<b>Emission Data Vehicle Information</b>								
<b>Vehicle ID / Configuration</b>	DS316-L2S / 0	<b>Manufacturer Vehicle Configuration Number</b>	0					
<b>Original Test Group Name</b>	GTSLV00.0L2S	<b>Original Evaporative/Refueling Family</b>	--					
<b>Original Test Vehicle Model Year</b>	2016							
<b>Vehicle Model</b>								
<b>Represented Test Vehicle Make</b>	Tesla Model S	<b>Represented Test Vehicle Model</b>	90D					
<b>Leak Family Details</b>								
<b>Leak Family Identifier</b>	--	<b>Leak Family Name</b>	--					
<b>Drive Sources and Fuel System Details</b>								
	<table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	
Drive Source and Fuel#	Drive Source	Fuel						
1	Electric Motor	Electricity						
<b>Hybrid Indicator</b>	No	<b>Multiple Fuel Combustion</b>	--					
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	Yes					
<b>Fuel Cell Indicator</b>	No	<b>Rechargeable Energy Storage System, if 'Other'</b>	--					
<b>Rechargeable Energy Storage System</b>	Battery(s)							
<b>Off-board charge Capable Indicator</b>	Yes	<b>Odometer Correction Factor</b>	1					
<b>Odometer Correction -- Initial</b>	1							
<b>Odometer Correction Sign</b>	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor							
<b>Odometer Correction Units</b>	Miles							
<b>Engine Code</b>	L2S	<b>Rated Horsepower</b>	376					
<b>Displacement (liters)</b>	0.001	<b>Air Aspiration Method, if 'Other'</b>						
<b>Air Aspiration Method</b>	Naturally Aspirated	<b>Air Aspiration Device Configuration</b>	--					
<b>Number of Air Aspiration Devices</b>	--	<b>Drive Mode While Testing</b>	4-Wheel Drive					
<b>Charge Air Cooler Type</b>	--	<b>Aged Emission Components</b>	4,000 (mi)					
<b>Shift Indicator Light Usage</b>	Not equipped	<b>Equivalent Test Weight (pounds)</b>	5000					
<b>Curb Weight (lbs)</b>	4811	<b>N/V Ratio</b>	9.7					
<b>GVWR (lbs)</b>	5820							
<b>Axle Ratio</b>	9.34	<b># of Transmission Gears</b>	1					
<b>Transmission Type</b>	Direct Drive	<b>Creep Gear</b>	No					
<b>Transmission Lockup</b>	No							
<b>Dynamometer Coefficients:</b>								
	<b>Target Coefficients</b>		<b>Set Coefficients</b>					
<b>Coefficient Category</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>					
<b>City/Highway/Evap</b>	39.24	0.1493	0.01514					
			<b>A (lbf)</b>					
			<b>B (lbf/mph)</b>					
			<b>C (lbf/mph**2)</b>					
			<b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>					
			11.3					
<b>Emission Control Device Comments</b>								
No emissions control Device - Pure Electric Vehicle								

## Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	This is a Dual Motor Base configuration with 90kWh vehicle - MY2016 Running Change to include new tires, transmission fluid and new front fascia Individual HP is 193kW Front / 193KW Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

## Certification Summary Information Report

<b>Test Group</b>	HTSLV00.0L2S	<b>Evaporative/Refueling Family</b>	--																																												
<b>Test #</b>	<b>GTSL10040237</b>	<b>Test Procedure</b>	<b>81 - Charge Depleting UDDS</b>																																												
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity																																												
<b>Test Date</b>	03/11/2016	<b>Fuel</b>	N/A																																												
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--																																												
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned																																												
<b>Verify Test Lab ID</b>	Fremont Dyno																																														
<b>E10 Evaporative Test Measurement Method</b>	--																																														
<b>Test Start Odometer Reading</b>	566	<b>Odometer Units</b>	M																																												
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--																																												
<b>State of Charge Delta</b>	--																																														
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes																																												
<b>PHEV/EV TEST INFO</b>																																															
<b>Recharge Event Voltage</b>	208	<b>Recharge Event Energy (kiloWatt-hours)</b>	96.08																																												
<b>Charge Depleting Range (Calculated miles)</b>	384	<b>Charge Depleting Range (Actual miles)</b>	384																																												
<b>Equivalent All Electric Range (miles)</b>	384																																														
<b>Number of Charge Depleting Bags/Phases Conducted</b>	1																																														
<b>Charge Depleting Bag/Phase</b>																																															
	<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actual Distance Driven (miles)</td> <td>384</td> </tr> <tr> <td>2</td> <td>Average System Voltage</td> <td>350</td> </tr> <tr> <td>3</td> <td>Carbon Monoxide</td> <td>0</td> </tr> <tr> <td>4</td> <td>Carbon dioxide</td> <td>0</td> </tr> <tr> <td>5</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>6</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Energy Economy Rating</td> <td>0</td> </tr> <tr> <td>8</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>9</td> <td>Integrated Amp-hours</td> <td>0</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>21.8</td> </tr> <tr> <td>11</td> <td>Nitrogen Oxide</td> <td>0</td> </tr> <tr> <td>12</td> <td>Particulate Matter</td> <td>0</td> </tr> <tr> <td>13</td> <td>System End State of Charge Watt-hours</td> <td>0</td> </tr> <tr> <td>14</td> <td>System Start State of Charge Watt-hours</td> <td>0</td> </tr> </tbody> </table>	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Actual Distance Driven (miles)	384	2	Average System Voltage	350	3	Carbon Monoxide	0	4	Carbon dioxide	0	5	Carbon-Related Exhaust Emissions	0	6	Drive Trace Absolute Speed Change Rating	0	7	Drive Trace Energy Economy Rating	0	8	Drive Trace Inertia Work Ratio Rating	0	9	Integrated Amp-hours	0	10	Manufacturer Fuel Economy	21.8	11	Nitrogen Oxide	0	12	Particulate Matter	0	13	System End State of Charge Watt-hours	0	14	System Start State of Charge Watt-hours	0	
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																													
1	Actual Distance Driven (miles)	384																																													
2	Average System Voltage	350																																													
3	Carbon Monoxide	0																																													
4	Carbon dioxide	0																																													
5	Carbon-Related Exhaust Emissions	0																																													
6	Drive Trace Absolute Speed Change Rating	0																																													
7	Drive Trace Energy Economy Rating	0																																													
8	Drive Trace Inertia Work Ratio Rating	0																																													
9	Integrated Amp-hours	0																																													
10	Manufacturer Fuel Economy	21.8																																													
11	Nitrogen Oxide	0																																													
12	Particulate Matter	0																																													
13	System End State of Charge Watt-hours	0																																													
14	System Start State of Charge Watt-hours	0																																													
<b>Manufacturer Test Comments</b>	Internal test result for MY2016 90D- Refresh																																														

## Certification Summary Information Report

<b>Test Group</b>	HTSLV00.0L2S	<b>Evaporative/Refueling Family</b>	--																																												
<b>Test #</b>	<b>GTSL10040259</b>	<b>Test Procedure</b>	<b>84 - Charge Depleting Highway</b>																																												
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity																																												
<b>Test Date</b>	03/15/2016	<b>Fuel</b>	N/A																																												
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--																																												
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned																																												
<b>Verify Test Lab ID</b>	Fremont Dyno																																														
<b>E10 Evaporative Test Measurement Method</b>	--																																														
<b>Test Start Odometer Reading</b>	350	<b>Odometer Units</b>	M																																												
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--																																												
<b>State of Charge Delta</b>	--																																														
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes																																												
<b>PHEV/EV TEST INFO</b>																																															
<b>Recharge Event Voltage</b>	208	<b>Recharge Event Energy (kiloWatt-hours)</b>	96.66																																												
<b>Charge Depleting Range (Calculated miles)</b>	405.2	<b>Charge Depleting Range (Actual miles)</b>	405.2																																												
<b>Equivalent All Electric Range (miles)</b>	405.2																																														
<b>Number of Charge Depleting Bags/Phases Conducted</b>	1																																														
<b>Charge Depleting Bag/Phase</b>																																															
	<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actual Distance Driven (miles)</td> <td>405.2</td> </tr> <tr> <td>2</td> <td>Average System Voltage</td> <td>350</td> </tr> <tr> <td>3</td> <td>Carbon Monoxide</td> <td>0</td> </tr> <tr> <td>4</td> <td>Carbon dioxide</td> <td>0</td> </tr> <tr> <td>5</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>6</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Energy Economy Rating</td> <td>0</td> </tr> <tr> <td>8</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>9</td> <td>Integrated Amp-hours</td> <td>0</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>20.8</td> </tr> <tr> <td>11</td> <td>Nitrogen Oxide</td> <td>0</td> </tr> <tr> <td>12</td> <td>Particulate Matter</td> <td>0</td> </tr> <tr> <td>13</td> <td>System End State of Charge Watt-hours</td> <td>0</td> </tr> <tr> <td>14</td> <td>System Start State of Charge Watt-hours</td> <td>0</td> </tr> </tbody> </table>	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Actual Distance Driven (miles)	405.2	2	Average System Voltage	350	3	Carbon Monoxide	0	4	Carbon dioxide	0	5	Carbon-Related Exhaust Emissions	0	6	Drive Trace Absolute Speed Change Rating	0	7	Drive Trace Energy Economy Rating	0	8	Drive Trace Inertia Work Ratio Rating	0	9	Integrated Amp-hours	0	10	Manufacturer Fuel Economy	20.8	11	Nitrogen Oxide	0	12	Particulate Matter	0	13	System End State of Charge Watt-hours	0	14	System Start State of Charge Watt-hours	0	
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																													
1	Actual Distance Driven (miles)	405.2																																													
2	Average System Voltage	350																																													
3	Carbon Monoxide	0																																													
4	Carbon dioxide	0																																													
5	Carbon-Related Exhaust Emissions	0																																													
6	Drive Trace Absolute Speed Change Rating	0																																													
7	Drive Trace Energy Economy Rating	0																																													
8	Drive Trace Inertia Work Ratio Rating	0																																													
9	Integrated Amp-hours	0																																													
10	Manufacturer Fuel Economy	20.8																																													
11	Nitrogen Oxide	0																																													
12	Particulate Matter	0																																													
13	System End State of Charge Watt-hours	0																																													
14	System Start State of Charge Watt-hours	0																																													
<b>Manufacturer Test Comments</b>	Internal test result for MY2016 90D- Refresh																																														

Page 24 of 32 CSI Submission/Revision Date: 03/01/2017 04:54:08 PM



## Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	This is a Dual Motor Base configuration with 100kWh battery Individual HP is 193kW Front / 193KW Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

## Certification Summary Information Report

Test Group	HTSLV00.0L2S	Evaporative/Refueling Family	--																																													
<b>Test #</b>	<b>HTSL10046798</b>	<b>Test Procedure</b>	<b>81 - Charge Depleting UDDS</b>																																													
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity																																													
<b>Test Date</b>	02/14/2017	<b>Fuel</b>	N/A																																													
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--																																													
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned																																													
<b>Verify Test Lab ID</b>	Fremont Dyno																																															
<b>E10 Evaporative Test Measurement Method</b>	--																																															
<b>Test Start Odometer Reading</b>	1000	<b>Odometer Units</b>	M																																													
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--																																													
<b>State of Charge Delta</b>	--																																															
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes																																													
<b>PHEV/EV TEST INFO</b>																																																
<b>Recharge Event Voltage</b>	208	<b>Recharge Event Energy (kiloWatt-hours)</b>	113.201																																													
<b>Charge Depleting Range (Calculated miles)</b>	449.76	<b>Charge Depleting Range (Actual miles)</b>	449.76																																													
<b>Equivalent All Electric Range (miles)</b>	449.76																																															
<b>Number of Charge Depleting Bags/Phases Conducted</b>	1																																															
<b>Charge Depleting Bag/Phase</b>																																																
	<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actual Distance Driven (miles)</td> <td>449.76</td> </tr> <tr> <td>2</td> <td>Average System Voltage</td> <td>350</td> </tr> <tr> <td>3</td> <td>Carbon Monoxide</td> <td>0</td> </tr> <tr> <td>4</td> <td>Carbon dioxide</td> <td>0</td> </tr> <tr> <td>5</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>6</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Energy Economy Rating</td> <td>0</td> </tr> <tr> <td>8</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>9</td> <td>Integrated Amp-hours</td> <td>0</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>133.9</td> </tr> <tr> <td>11</td> <td>Nitrogen Oxide</td> <td>0</td> </tr> <tr> <td>12</td> <td>Particulate Matter</td> <td>0</td> </tr> <tr> <td>13</td> <td>System End State of Charge Watt-hours</td> <td>0</td> </tr> <tr> <td>14</td> <td>System Start State of Charge Watt-hours</td> <td>0</td> </tr> </tbody> </table>	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Actual Distance Driven (miles)	449.76	2	Average System Voltage	350	3	Carbon Monoxide	0	4	Carbon dioxide	0	5	Carbon-Related Exhaust Emissions	0	6	Drive Trace Absolute Speed Change Rating	0	7	Drive Trace Energy Economy Rating	0	8	Drive Trace Inertia Work Ratio Rating	0	9	Integrated Amp-hours	0	10	Manufacturer Fuel Economy	133.9	11	Nitrogen Oxide	0	12	Particulate Matter	0	13	System End State of Charge Watt-hours	0	14	System Start State of Charge Watt-hours	0		
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																														
1	Actual Distance Driven (miles)	449.76																																														
2	Average System Voltage	350																																														
3	Carbon Monoxide	0																																														
4	Carbon dioxide	0																																														
5	Carbon-Related Exhaust Emissions	0																																														
6	Drive Trace Absolute Speed Change Rating	0																																														
7	Drive Trace Energy Economy Rating	0																																														
8	Drive Trace Inertia Work Ratio Rating	0																																														
9	Integrated Amp-hours	0																																														
10	Manufacturer Fuel Economy	133.9																																														
11	Nitrogen Oxide	0																																														
12	Particulate Matter	0																																														
13	System End State of Charge Watt-hours	0																																														
14	System Start State of Charge Watt-hours	0																																														
<b>Manufacturer Test Comments</b>	Internal test result for MY2017 100D . Range determined by using SAE J1634 Multi-cycle test procedure.																																															

## Certification Summary Information Report

<b>Test Group</b>	HTSLV00.0L2S	<b>Evaporative/Refueling Family</b>	--																																													
<b>Test #</b>	<b>HTSL10046799</b>	<b>Test Procedure</b>	<b>84 - Charge Depleting Highway</b>																																													
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity																																													
<b>Test Date</b>	02/14/2017	<b>Fuel</b>	N/A																																													
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--																																													
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned																																													
<b>Verify Test Lab ID</b>	Fremont Dyno																																															
<b>E10 Evaporative Test Measurement Method</b>	--																																															
<b>Test Start Odometer Reading</b>	1000	<b>Odometer Units</b>	M																																													
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--																																													
<b>State of Charge Delta</b>	--																																															
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes																																													
<b>PHEV/EV TEST INFO</b>																																																
<b>Recharge Event Voltage</b>	208	<b>Recharge Event Energy (kiloWatt-hours)</b>	113.201																																													
<b>Charge Depleting Range (Calculated miles)</b>	455.37	<b>Charge Depleting Range (Actual miles)</b>	455.37																																													
<b>Equivalent All Electric Range (miles)</b>	455.37																																															
<b>Number of Charge Depleting Bags/Phases Conducted</b>	1																																															
<b>Charge Depleting Bag/Phase</b>																																																
	<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actual Distance Driven (miles)</td> <td>455.37</td> </tr> <tr> <td>2</td> <td>Average System Voltage</td> <td>350</td> </tr> <tr> <td>3</td> <td>Carbon Monoxide</td> <td>0</td> </tr> <tr> <td>4</td> <td>Carbon dioxide</td> <td>0</td> </tr> <tr> <td>5</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>6</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Energy Economy Rating</td> <td>0</td> </tr> <tr> <td>8</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>9</td> <td>Integrated Amp-hours</td> <td>0</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>135.6</td> </tr> <tr> <td>11</td> <td>Nitrogen Oxide</td> <td>0</td> </tr> <tr> <td>12</td> <td>Particulate Matter</td> <td>0</td> </tr> <tr> <td>13</td> <td>System End State of Charge Watt-hours</td> <td>0</td> </tr> <tr> <td>14</td> <td>System Start State of Charge Watt-hours</td> <td>0</td> </tr> </tbody> </table>	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Actual Distance Driven (miles)	455.37	2	Average System Voltage	350	3	Carbon Monoxide	0	4	Carbon dioxide	0	5	Carbon-Related Exhaust Emissions	0	6	Drive Trace Absolute Speed Change Rating	0	7	Drive Trace Energy Economy Rating	0	8	Drive Trace Inertia Work Ratio Rating	0	9	Integrated Amp-hours	0	10	Manufacturer Fuel Economy	135.6	11	Nitrogen Oxide	0	12	Particulate Matter	0	13	System End State of Charge Watt-hours	0	14	System Start State of Charge Watt-hours	0		
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																														
1	Actual Distance Driven (miles)	455.37																																														
2	Average System Voltage	350																																														
3	Carbon Monoxide	0																																														
4	Carbon dioxide	0																																														
5	Carbon-Related Exhaust Emissions	0																																														
6	Drive Trace Absolute Speed Change Rating	0																																														
7	Drive Trace Energy Economy Rating	0																																														
8	Drive Trace Inertia Work Ratio Rating	0																																														
9	Integrated Amp-hours	0																																														
10	Manufacturer Fuel Economy	135.6																																														
11	Nitrogen Oxide	0																																														
12	Particulate Matter	0																																														
13	System End State of Charge Watt-hours	0																																														
14	System Start State of Charge Watt-hours	0																																														
<b>Manufacturer Test Comments</b>	Internal test result for MY2017 100D . Range determined by using SAE J1634 Multi-cycle test procedure.																																															

**Certification Summary Information Report**

<b>Test Group</b>	HTSLV00.0L2S	<b>Evaporative/Refueling Family</b>	--
<b>Fuel Properties</b>			

## Certification Summary Information Report

Test Group		HTSLV00.0L2S			Evaporative/Refueling Family		--			
Consolidated List of Standards										
Exhaust Standards										
Cert Region		Federal			Cert/In-Use Code		Cert			
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 3 Bin 0			
Fuel		Electricity			Test Procedure		CVS 75 and later (w/o can. load)			
Useful Life		Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	1	--	0
150,000 miles	CREE	--	--	--	--	--	--	1	--	0

## Certification Summary Information Report

Test Group		HTSLV00.0L2S	Evaporative/Refueling Family		--
Glossary					
Useful Life					
4	4,000 miles		120	120,000 miles	
50	50,000 miles		150	150,000 miles	
100	100,000 miles				
Emission Name					
HC-TOTAL	Total Hydrocarbon		METHANOL	CH3OH - Methanol	
CO	Carbon Monoxide		N2O	Nitrous Oxide	
CO2	Carbon dioxide		SPITBACK	Spitback Hydrocarbon in grams	
CREE	Carbon-Related Exhaust Emissions		AMP-HRS	Integrated Amp-hours	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		START-SOC	System Start State of Charge Watt-hours	
NOX	Nitrogen Oxide		END-SOC	System End State of Charge Watt-hours	
PM	Particulate Matter		ACT-DISTANCE	Actual Distance Driven (miles)	
PM-COMP	SFTP Composite Particulate Matter		AS-VOLT	Average System Voltage	
HC-NM	Non-methane Hydrocarbon		CO2 BAG 1	Bag 1 Carbon Dioxide	
OMHCE	Organic material Hydrocarbon Equivalent		CO2 BAG 2	Bag 2 Carbon Dioxide	
OMNMHCE	Organic material non-methane HC equivalent		CO2 BAG 3	Bag 3 Carbon Dioxide	
NMOG	Non-methane organic gas (California)		CO2 BAG 4	Bag 4 Carbon Dioxide	
HCHO	Formaldehyde		NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides	
H3C2HO	Acetaldehyde		NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		DT-IWRR	Drive Trace Inertia Work Ratio Rating	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		DT-ASCR	Drive Trace Absolute Speed Change Rating	
CO-COMP	SFTP Composite Carbon Monoxide		DT-EER	Drive Trace Energy Economy Rating	
ETHANOL	C2H5OH - Ethanol		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
FE BAG 1	Bag 1 Fuel Economy		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
FE BAG 2	Bag 2 Fuel Economy		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
FE BAG 3	Bag 3 Fuel Economy		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
FE BAG 4	Bag 4 Fuel Economy		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
MFR FE	Manufacturer Fuel Economy		LEAK-DIA	Effective Leak Diameter (inches)	
HC	Hydrocarbon for Running Loss and ORVR		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
METHANE	CH4 - Methane		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		L3ULEV340	California LEV-III ULEV340	
B2	Federal Tier 2 Bin 2		L3ULEV250	California LEV-III ULEV250	
B3	Federal Tier 2 Bin 3		L3ULEV200	California LEV-III ULEV200	
B4	Federal Tier 2 Bin 4		L3SULEV170	California LEV-III SULEV170	
B5	Federal Tier 2 Bin 5		L3SULEV150	California LEV-III SULEV150	

## Certification Summary Information Report

Test Group		HTSLV00.0L2S	Evaporative/Refueling Family		--
B6	Federal Tier 2 Bin 6		L3LEV630	California LEV-III LEV630	
B7	Federal Tier 2 Bin 7		L3ULEV570	California LEV-III ULEV570	
B8	Federal Tier 2 Bin 8		L3ULEV400	California LEV-III ULEV400	
B9	Federal Tier 2 Bin 9		L3ULEV270	California LEV-III ULEV270	
B10	Federal Tier 2 Bin 10		L3SULEV230	California LEV-III SULEV230	
B11	Federal Tier 2 Bin 11		L3SULEV200	California LEV-III SULEV200	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		T3B160	Federal Tier 3 Bin 160	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		T3B125	Federal Tier 3 Bin 125	
L2	California LEV-II LEV		T3B110	Federal Tier 3 Transitional Bin 110	
L2OP	California LEV-II LEV Optional		T3B85	Federal Tier 3 Transitional Bin 85	
U2	California LEV-II ULEV		T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	
S2	California LEV-II SULEV		T3B70	Federal Tier 3 Bin 70	
ZEV	California ZEV		T3B50	Federal Tier 3 Bin 50	
OT	Other		T3B30	Federal Tier 3 Bin 30	
T1	Federal Tier 1		T3B20	Federal Tier 3 Bin 20	
PZEV	California PZEV		T3B0	Federal Tier 3 Bin 0	
L2LEV160	California LEV-II LEV160		HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395	
L2ULEV125	California LEV-II ULEV125		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
L2SULEV30	California LEV-II SULEV30		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
L2LEV395	California LEV-II LEV395		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
L2ULEV340	California LEV-II ULEV340		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
L2LEV630	California LEV-II LEV630		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
L2ULEV570	California LEV-II ULEV570		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
L3LEV160	California LEV-III LEV160		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
L3ULEV125	California LEV-III ULEV125		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
L3ULEV70	California LEV-III ULEV70		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
L3ULEV50	California LEV-III ULEV50		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
L3SULEV30	California LEV-III SULEV30		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
L3SULEV20	California LEV-III SULEV20		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
L3LEV395	California LEV-III LEV395		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
<b>Transmission Type Code</b>					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
<b>Drive System Code</b>					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		
F	2-Wheel Drive, Front	A	All Wheel Drive		
R	2-Wheel Drive, Rear				

**Certification Summary Information Report**

Test Group		HTSLV00.0L2S	Evaporative/Refueling Family		--
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	